

EAST SEARCH HISTORY

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|---|---|------------------|---------|------------------|
| S1 | 1156762 | crystal or nanocrystal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:22 |
| S2 | 12340 | amphiphilic | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:22 |
| S3 | 2159406 | carbox\$5 or COOH or hydroxy\$2 or OH or sulfon\$5 or sulphon\$5 or SO3H or "SO.sub.3H" or amin\$3 or NH2 or "NH.sub.2" or phosphon\$3 or PO3H2 or "PO.sub.3H.sub.2" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:23 |
| S4 | 26965 | (sol adj gel) or sol\$1gel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:24 |
| S5 | 313098 | (alkoxide or halide or fluoride or chloride or bromide or iodide or hydroxide) near5 (silicon or Si or titanium or Ti or zirconium or Zr or aluminum or Al or vanadium or V or iron or Fe or tin or Sn or tantalum Ta or cerium or Ce or chromium or Cr) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:27 |
| S6 | 4133406 | (zinc or Zn or cadmium or Cd or mercury or Hg or aluminum or Al or gallium or Ga or indium or In or thallium or Tl or lead or Pb or tin or Sn or magnesium or Mg or calcium or Ca or strontium or Sr or barium or Ba) near5 (sulfur or sulphur or S or selenium or Se or tellurium or Te or arsenic or As or antimony or Sb or nitrogen or N or phosphorus or P or silicon or Si or germanium or Ge or silver or Ag or gold or Au or cobalt or Co or iron or Fe or nickel or Ni or copper or Cu or manganese or Mn) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:29 |

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|-----|--------|--|---|-----|----|------------------|
| S7 | 266785 | ((acrylic or methacrylic or meth\$1acrylic or (meth adj acrylic)) adj acid) or polyacrylicacid or polymethacrylicacid or (poly\$1acrylic or (poly adj acrylic) or poly\$1methacrylic or (poly adj methacrylic) or (poly adj meth\$1acrylic) or (poly adj meth adj acrylic) adj acid) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:34 |
| S8 | 14 | ((acrylic adj acid) or polyacrylicacid or (poly\$1acrylic or (poly adj acrylic) adj acid)) near5 (octylamine or (octyl adj amine) or octyl\$1amine) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 07:36 |
| S9 | 0 | S1 S2 S3 S4 S5 S6 S7 S8 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/16 07:39 |
| S10 | 0 | S1 S2 S3 S4 S5 S6 S7 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/16 07:36 |
| S11 | 0 | S1 S2 S4 S5 S6 S7 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/16 07:37 |
| S12 | 0 | S1 S2 S4 S6 S7 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/16 07:37 |
| S13 | 1 | S1 S2 S4 S6 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/16 07:38 |
| S14 | 2 | S1 S2 S4 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/11/16 07:38 |
| S15 | 0 | S1 S2 S3 S4 S5 S6 S7 S8 | USOCR | AND | ON | 2005/11/16 07:40 |
| S16 | 0 | S1 S2 S3 S4 S5 S6 S7 | USOCR | AND | ON | 2005/11/16 07:41 |
| S17 | 0 | S1 S2 S4 S5 S6 S7 | USOCR | AND | ON | 2005/11/16 07:40 |
| S18 | 0 | S1 S2 S4 S6 S7 | USOCR | AND | ON | 2005/11/16 07:40 |
| S19 | 0 | S1 S2 S4 S6 | USOCR | AND | ON | 2005/11/16 07:40 |
| S20 | 0 | S1 S2 S4 | USOCR | AND | ON | 2005/11/16 07:40 |
| S21 | 1 | S1 S2 S3 S4 S5 S6 S7 S8 | US-PGPUB; USPAT | AND | ON | 2005/11/16 07:41 |
| S22 | 27 | S1 S2 S3 S4 S5 S6 S7 | US-PGPUB; USPAT | AND | ON | 2005/11/16 07:44 |
| S23 | 1 | (S1 same S6) (S2 same S3 same S7) (S4 same S5) | US-PGPUB; USPAT | AND | ON | 2005/11/16 07:49 |
| S24 | 2 | (S1 same S6) (S2 same S3) (S4 same S5) | US-PGPUB; USPAT | AND | ON | 2005/11/16 07:48 |

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|-----|---------|--|---|-----|----|------------------|
| S25 | 160 | (S1 same S6) (S4 same S5) | US-PGPUB; USPAT | AND | ON | 2005/11/16 07:48 |
| S26 | 46 | (S1 same S6) (S4 same S5) and surfactant | US-PGPUB; USPAT | AND | ON | 2005/11/16 07:49 |
| S27 | 27 | (S1 same S6) (S7 or S8) (S4 same S5) | US-PGPUB; USPAT | AND | ON | 2005/11/16 07:50 |
| S28 | 21 | S27 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/11/16 14:20 |
| S29 | 162 | 516/100.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:03 |
| S30 | 410 | 516/98.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:02 |
| S31 | 403 | S30 not S29 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 08:03 |
| S32 | 17535 | PbSe or Pb\$1Se or (Pb adj Se) or Lead\$1Selenium or (Lead adj Selenium) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 10:09 |
| S33 | 1156762 | crystal or nanocrystal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 10:15 |
| S34 | 26965 | (sol adj gel) or sol\$1gel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 10:17 |
| S35 | 483 | S33 and S34 | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 10:09 |
| S36 | 2 | S32 and S33 and S34 | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 10:14 |
| S37 | 2 | S32 and S33 and S34 | USOCR | OR | ON | 2005/11/16 10:14 |

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|-----|-------|---|---|-----|----|------------------|
| S38 | 95 | S32 and S33 and S34 | US-PGPUB; USPAT | OR | ON | 2005/11/16 10:15 |
| S39 | 3891 | nanocrystal or nano\$1crystal or (nano adj crystal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 10:15 |
| S40 | 48 | S32 and S39 and S34 | US-PGPUB; USPAT | OR | ON | 2005/11/16 10:15 |
| S41 | 23 | (S32 same S39) and S34 | US-PGPUB; USPAT | OR | ON | 2005/11/16 10:17 |
| S42 | 13 | S41 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/11/16 10:16 |
| S43 | 26985 | (sol adj gel) or sol\$1gel or solgel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 10:17 |
| S44 | 110 | (S43 same S39) and S34 | US-PGPUB; USPAT | OR | ON | 2005/11/16 10:18 |
| S45 | 23 | (S32 same S39) and S43 | US-PGPUB; USPAT | OR | ON | 2005/11/16 10:18 |
| S46 | 1 | "5093286".pn. | USPAT | OR | ON | 2005/11/16 10:24 |
| S47 | 3 | (US-6645444-\$ or US-6262129-\$ or US-6869545-\$).did. | USPAT | OR | ON | 2005/11/16 10:25 |
| S48 | 14 | ((acrylic adj acid) or polyacrylicacid or (poly\$1acrylic or (poly adj acrylic) adj acid)) near5 (octylamine or (octyl adj amine) or octyl\$1amine) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:57 |
| S49 | 5 | S48 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/11/16 14:27 |
| S50 | 3891 | nanocrystal or nano\$1crystal or (nano adj crystal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 14:26 |
| S51 | 242 | S50 and ((volume or vol) near5 (load\$4 percent\$4 "%")) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 14:30 |

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|-----|---------|---|---|-----|----|------------------|
| S52 | 4133406 | (zinc or Zn or cadmium or Cd or mercury or Hg or aluminum or Al or gallium or Ga or indium or In or thallium or Tl or lead or Pb or tin or Sn or magnesium or Mg or calcium or Ca or strontium or Sr or barium or Ba) near5 (sulfur or sulphur or S or selenium or Se or tellurium or Te or arsenic or As or antimony or Sb or nitrogen or N or phosphorus or P or silicon or Si or germanium or Ge or silver or Ag or gold or Au or cobalt or Co or iron or Fe or nickel or Ni or copper or Cu or manganese or Mn) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 14:42 |
| S53 | 226 | S51 and S52 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 14:31 |
| S54 | 169 | S53 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/11/16 14:41 |
| S55 | 18 | S50 with ((volume or vol) near5 (load\$4 percent\$4 "%")) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 14:30 |
| S56 | 0 | S55 with S52 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 14:31 |
| S57 | 14 | S55 and S52 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 14:31 |
| S58 | 10 | S57 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/11/16 14:41 |
| S59 | 747 | S50 with S52 | US-PGPUB; USPAT | AND | ON | 2005/11/16 14:43 |
| S60 | 5 | S55 and S59 | US-PGPUB; USPAT | AND | ON | 2005/11/16 14:43 |
| S61 | 3 | S60 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/11/16 14:43 |

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|-----|---------|--|---|-----|----|------------------|
| S62 | 9114521 | (zinc or Zn or cadmium or Cd or mercury or Hg or aluminum or Al or gallium or Ga or indium or In or thallium or Tl or lead or Pb or tin or Sn or magnesium or Mg or calcium or Ca or strontium or Sr or barium or Ba) same (sulfur or sulphur or S or selenium or Se or tellurium or Te or arsenic or As or antimony or Sb or nitrogen or N or phosphorus or P or silicon or Si or germanium or Ge or silver or Ag or gold or Au or cobalt or Co or iron or Fe or nickel or Ni or copper or Cu or manganese or Mn) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 15:26 |
| S63 | 1 | "20020155507".pn. | US-PGPUB; USPAT | OR | ON | 2005/11/16 14:49 |
| S64 | 6024703 | (zinc or Zn or cadmium or Cd or mercury or Hg or aluminum or Al or gallium or Ga or indium or In or thallium or Tl or lead or Pb or tin or Sn or magnesium or Mg or calcium or Ca or strontium or Sr or barium or Ba) with (sulfur or sulphur or S or selenium or Se or tellurium or Te or arsenic or As or antimony or Sb or nitrogen or N or phosphorus or P or silicon or Si or germanium or Ge or silver or Ag or gold or Au or cobalt or Co or iron or Fe or nickel or Ni or copper or Cu or manganese or Mn) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/11/16 15:26 |
| S65 | 931 | S50 with S64 | US-PGPUB; USPAT | AND | ON | 2005/11/16 15:32 |
| S66 | 7 | S55 and S65 | US-PGPUB; USPAT | AND | ON | 2005/11/16 15:33 |
| S67 | 4 | S66 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/11/16 15:33 |
| S68 | 410 | 516/98.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:42 |
| S69 | 162 | 516/100.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:42 |

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|-----|---------|---|---|----|----|------------------|
| S70 | 1163437 | crystal or nanocrystal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |
| S71 | 12468 | amphiphilic | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |
| S72 | 2166821 | carbox\$5 or COOH or hydroxy\$2 or OH or sulfon\$5 or sulphon\$5 or SO3H or "SO.sub.3H" or amin\$3 or NH2 or "NH.sub.2" or phosphon\$3 or PO3H2 or "PO.sub.3H.sub.2" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |
| S73 | 27186 | (sol adj gel) or sol\$1gel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |
| S74 | 314082 | (alkoxide or halide or fluoride or chloride or bromide or iodide or hydroxide) near5 (silicon or Si or titanium or Ti or zirconium or Zr or aluminum or Al or vanadium or V or iron or Fe or tin or Sn or tantalum Ta or cerium or Ce or chromium or Cr) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |
| S75 | 4145937 | (zinc or Zn or cadmium or Cd or mercury or Hg or aluminum or Al or gallium or Ga or indium or In or thallium or Tl or lead or Pb or tin or Sn or magnesium or Mg or calcium or Ca or strontium or Sr or barium or Ba) near5 (sulfur or sulphur or S or selenium or Se or tellurium or Te or arsenic or As or antimony or Sb or nitrogen or N or phosphorus or P or silicon or Si or germanium or Ge or silver or Ag or gold or Au or cobalt or Co or iron or Fe or nickel or Ni or copper or Cu or manganese or Mn) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |

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|-----|--------|---|---|-----|----|------------------|
| S76 | 267734 | ((acrylic or methacrylic or meth\$1acrylic or (meth adj acrylic)) adj acid) or polyacrylicacid or polymethacrylicacid or (poly\$1acrylic or (poly adj acrylic) or poly\$1methacrylic or (poly adj methacrylic) or (poly adj meth\$1acrylic) or (poly. adj meth adj acrylic) adj acid) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |
| S77 | 14 | ((acrylic adj acid) or polyacrylicacid or (poly\$1acrylic or (poly adj acrylic) adj acid)) near5 (octylamine or (octyl adj amine) or octyl\$1amine) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:43 |
| S78 | 0 | S70 S71 S72 S73 S74 S75 S76 S77 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/07 06:43 |
| S79 | 0 | S70 S71 S72 S73 S74 S75 S76 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/07 06:43 |
| S80 | 0 | S70 S71 S73 S74 S75 S76 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/07 06:43 |
| S81 | 0 | S70 S71 S73 S75 S76 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/07 06:43 |
| S82 | 1 | S70 S71 S73 S75 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/07 06:43 |
| S83 | 2 | S70 S71 S73 | EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2005/12/07 06:43 |
| S84 | 0 | S70 S71 S72 S73 S74 S75 S76 S77 | USOCR | AND | ON | 2005/12/07 06:43 |
| S85 | 0 | S70 S71 S72 S73 S74 S75 S76 | USOCR | AND | ON | 2005/12/07 06:43 |
| S86 | 0 | S70 S71 S73 S74 S75 S76 | USOCR | AND | ON | 2005/12/07 06:44 |
| S87 | 0 | S70 S71 S73 S75 S76 | USOCR | AND | ON | 2005/12/07 06:44 |
| S88 | 0 | S70 S71 S73 S75 | USOCR | AND | ON | 2005/12/07 06:44 |
| S89 | 0 | S70 S71 S73 | USOCR | AND | ON | 2005/12/07 06:44 |
| S90 | 1 | S70 S71 S72 S73 S74 S75 S76 S77 | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:44 |
| S91 | 27 | S70 S71 S72 S73 S74 S75 S76 | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:44 |
| S92 | 1 | (S70 same S75) (S71 same S72 same S76) (S73 same S74) | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:44 |
| S93 | 2 | (S70 same S75) (S71 same S72) (S73 same S74) | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:45 |

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|----------|---------|--|---|-----|----|------------------|
| S94 | 162 | (S70 same S75) (S73 same S74) | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:45 |
| S95 | 48 | (S70 same S75) (S73 same S74) and surfactant | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:45 |
| S96 | 162 | (S70 same S75) (S73 same S74) | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:53 |
| S97 | 48 | (S70 same S75) (S73 same S74) and surfactant | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:54 |
| S98 | 29 | (S70 same S75) (S76 or S77) (S73 same S74) | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:54 |
| S99 | 21 | S98 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:54 |
| S10 0 | 17556 | PbSe or Pb\$1Se or (Pb adj Se) or Lead\$1Selenium or (Lead adj Selenium) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:54 |
| S10 1 | 1163437 | crystal or nanocrystal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:55 |
| S10 2 | 27186 | (sol adj gel) or sol\$1gel | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:55 |
| S10 3 | 484 | S101 and S102 | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:56 |
| S10 4 | 2 | S100 and S101 and S102 | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:56 |
| S10 5 | 2 | S100 and S101 and S102 | USOCR | OR | ON | 2005/12/07 06:56 |
| S10 6 | 97 | S100 and S101 and S102 | US-PGPUB; USPAT | OR | ON | 2005/12/07 06:56 |
| S10 7 | 3971 | nanocrystal or nano\$1crystal or (nano adj crystal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:56 |
| S10 8 | 50 | S100 and S107 and S102 | US-PGPUB; USPAT | OR | ON | 2005/12/07 06:56 |

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|----------|---------|---|---|-----|----|------------------|
| S10 9 | 25 | (S100 same S107) and S102 | US-PGPUB; USPAT | OR | ON | 2005/12/07 06:57 |
| S11 0 | 14 | ((acrylic adj acid) or polyacrylicacid or (poly\$1acrylic or (poly adj acrylic) adj acid)) near5 (octylamine or (octyl adj amine) or octyl\$1amine) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:57 |
| S11 1 | 5 | S110 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:57 |
| S11 2 | 3971 | nanocrystal or nano\$1crystal or (nano adj crystal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:58 |
| S11 3 | 244 | S112 and ((volume or vol) near5 (load\$4 percent\$4 "%")) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:58 |
| S11 4 | 4145937 | (zinc or Zn or cadmium or Cd or mercury or Hg or aluminum or Al or gallium or Ga or indium or In or thallium or Tl or lead or Pb or tin or Sn or magnesium or Mg or calcium or Ca or strontium or Sr or barium or Ba) near5 (sulfur or sulphur or S or selenium or Se or tellurium or Te or arsenic or As or antimony or Sb or nitrogen or N or phosphorus or P or silicon or Si or germanium or Ge or silver or Ag or gold or Au or cobalt or Co or iron or Fe or nickel or Ni or copper or Cu or manganese or Mn) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:58 |
| S11 5 | 228 | S113 and S114 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 06:59 |
| S11 6 | 170 | S115 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/12/07 06:59 |
| S11 7 | 18 | S112 with ((volume or vol) near5 (load\$4 percent\$4 "%")) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 07:02 |

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|------|---------|--|---|-----|----|------------------|
| S118 | 0 | S117 with S114 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 07:03 |
| S119 | 14 | S117 and S114 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 07:03 |
| S120 | 10 | S119 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:03 |
| S121 | 762 | S112 with S114 | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:04 |
| S122 | 5 | S117 and S121 | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:04 |
| S123 | 3 | S122 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:04 |
| S124 | 6043791 | (zinc or Zn or cadmium or Cd or mercury or Hg or aluminum or Al or gallium or Ga or indium or In or thallium or Tl or lead or Pb or tin or Sn or magnesium or Mg or calcium or Ca or strontium or Sr or barium or Ba) with (sulfur or sulphur or S or selenium or Se or tellurium or Te or arsenic or As or antimony or Sb or nitrogen or N or phosphorus or P or silicon or Si or germanium or Ge or silver or Ag or gold or Au or cobalt or Co or iron or Fe or nickel or Ni or copper or Cu or manganese or Mn) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 07:04 |
| S125 | 948 | S112 with S124 | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:04 |
| S126 | 7 | S117 and S125 | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:04 |
| S127 | 4 | S126 and (@pd<="20021116" or @ad<="20031116") | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:06 |
| S128 | 1 | "20050107478".pn. | US-PGPUB; USPAT | AND | ON | 2005/12/07 07:06 |
| S129 | 4 | (US-20020155507-\$ or US-20020110180-\$).did. or (US-6106609-\$ or US-6262129-\$).did. | US-PGPUB; USPAT | OR | ON | 2005/12/07 08:59 |

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|----------|---|---|---|----|----|------------------|
| S13 0 | 0 | S129 and (silane or alkoxysilane or alkoxy\$1silane or (alkoxy adj silane)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/07 09:00 |
|----------|---|---|---|----|----|------------------|